

This listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

Claim 1 (currently amended): Apparatus for formation of polarizers from a lyotropic liquid crystal (LLC) of at least one organic compound comprising:

at least one system for applying the LLC onto at least one substrate supported on a substrate holder,

at least one system for applying orienting force on the LLC, ~~{and}~~

a moving means for moving said systems for applying the LLC and for applying orienting force relative to said substrate holder, and

at least one anti-vibration means for preventing vibration of the apparatus,

wherein said at least one system for applying orienting force comprises at least one plate, one end of which is fixed such that during relative movement of the plate and the substrate holder at least a part of the plate's surface travels unrestricted over the surface of the applied LLC providing an external orienting force on the LLC.

Claim 2 (previously presented): Apparatus according to Claim 1 wherein said at least one system for applying the LLC includes means for feeding the LLC onto the substrate.

Claim 3 (previously presented): Apparatus according to Claim 2 wherein said means for feeding the LLC comprises at least one injector.

Claim 4 (previously presented): Apparatus as in Claim 2 wherein said means for feeding the LLC comprises at least one roller.

Claim 5 (previously presented): Apparatus as in Claim 2 which comprises at least one channel with metering dispenser.

Claim 6 (previously presented): Apparatus according any of Claims 1-3 wherein said at least one system for applying the LLC comprises at least one element for applying the LLC onto the substrate and at least one roller.

Claim 7 (previously presented): Apparatus as in Claim 2 in which said at least one system for applying the LLC onto the substrate comprises at least one doctor blade or rod.

Claim 8 (previously presented): Apparatus according to Claim 6 wherein on the surface of the at least one roller there is a relief pattern.

Claim 9 (original): Apparatus according to any of Claims 1, 2, or 7 wherein at least a part of the surface of the plate possesses hydrophilic or hydrophobic qualities.

Claim 10 (previously presented): Apparatus according to any of Claims 1, 2, or 7 wherein at least on a part of the surface of the plate there is a relief pattern.

Claim 11 (previously presented): Apparatus according to any of Claims 1, 2, or 7 wherein the plate is made out of a polymer material or rubber or at least two different materials.

Claim 12 (previously presented): Apparatus according to Claim 2 wherein said at least one system for applying the LLC is vertically moveable relative to the substrate holder.

Claim 13 (previously presented): Apparatus according to Claim 2 wherein said at least one system for applying the LLC is horizontally moveable relative to the substrate holder.

Claim 14 (previously presented): Apparatus according to Claim 1 wherein said at least one system for applying the LLC is implemented as at least one fixed roller, which is moveable to force the plate to the LLC.

Claim 15 (original): Apparatus according to Claim 1 wherein the plate is implemented in a rectangular shape.

Claim 16 (canceled)

Claim 17 (previously presented): Apparatus according to Claim 1 further comprising a system of automatic control.

Claims 18-29 (canceled)

Claim 30 (previously presented): The apparatus according to Claim 1 wherein one end of the plate is fastened to the at least one system for applying the LLC.

Claim 31 (previously presented): The apparatus according to Claim 1 wherein the at least one system for applying the LLC is implemented as at least one fixed roller, which is moveable to provide claspings of the plate to the LLC.

Claim 32 (previously presented): The apparatus according to Claim 1 wherein the at least one system for applying orienting force is provided with at least one means of claspings of the plate to the LLC.

Claim 33-39 (canceled)

Claim 40 (previously presented): Apparatus according to Claim 1 further comprising:
at least one system of feeding a solvent of the LLC, implemented in at least one
directing channel, and
at least one discharging and/or vacuum system for removal of the solvent and dissolved
LLC.

Claim 41 (previously presented): Apparatus according to Claim 40 wherein the system
of feeding and the system of removal are installed so that their longitudinal axes are situated in
the direction perpendicular to the plane of the substrate holder.

Claim 42 (previously presented): Apparatus according to Claim 40 or 41 wherein the
system of feeding and the system of removal are vertically and/or horizontally moveable.

Claim 43 (previously presented): Apparatus according to Claim 40 wherein the system
of feeding and the system of removal are moveable relative to the substrate holder.

Claim 44 (previously presented): Apparatus according to Claim 40 wherein the system
of feeding and the system of removal are moveable with respect to one another.

Claim 45 (previously presented): Apparatus according to Claim 40 wherein the system
of feeding and the system of removal comprise coaxial tubes, and the inner diameter of the tube
for removal is larger than the inner diameter of the tube for feeding of solvent.

Claim 46 (previously presented): Apparatus according to Claim 40 wherein the system
of feeding and the system of removal are mounted at a fixed distance from each other.

Claims 47-58 (canceled)

Claim 59 (new): The apparatus according to Claim 1, wherein the at least one anti-
vibration means prevents vibrations of the apparatus such that a thickness of a wet film of the
LLC oriented by the at least one system for applying the orienting force is within the range of
from 5 μm to 10 μm .